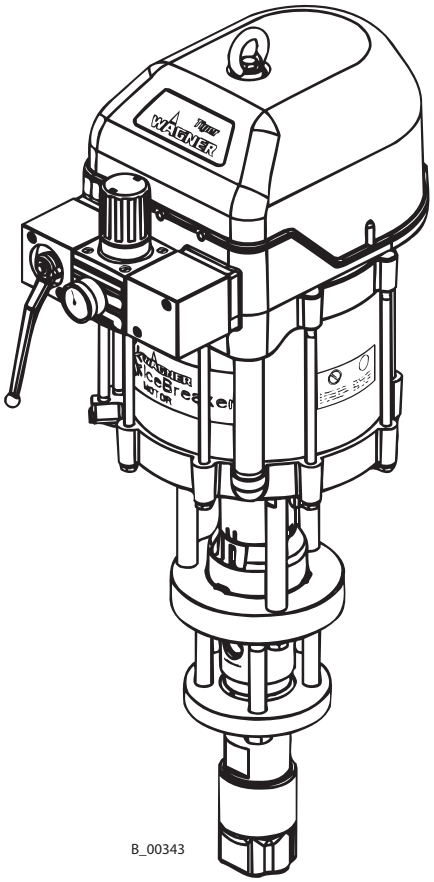
WAGNER

Operating manual

Tiger 72-300

Edition 04/2005

IceBreaker
Highpressure-piston-pump



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Ex II 2G IIB T3

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1 ABOUT THESE INSTRUCTIONS

This operating manual contains information on the operation, repair and maintenance of the unit.
→ Always observe these instructions when operating the unit.
This equipment can be dangerous if it is not operated in accordance with this manual.
Compliance with these instructions constitutes an integral component of the warranty agreement.

1.1 LANGUAGES

This operating manual is available in the following languages:

Language:	Order No.	Language:	Order No.
German	0370850	English	0370851
French	0370852	Dutch	0370853
Italian	0370854	Spanish	0370855
Danish	0370857	Swedish	0370856

-

1.2 WARNINGS, NOTES AND SYMBOLS IN THESE INSTRUCTIONS

Warning instructions in this operating manual point out particular dangers to users and equipment and state measures for avoiding the hazard. These warning instructions fall into the following categories:

Danger - imminent danger. Non-observance will result in death, serious injury and serious material damage

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⚠ DANGER

This line warns of the hazard !
Possible consequences of failing to observe the warning instructions. The signal word points out the hazard level.

→ The measures for preventing the hazard and its consequences.

Warning - possible danger. Non-observance can result in death, serious injury and serious material damage.

SIHI_0103_GB

⚠ WARNING

This line warns of the hazard !
Possible consequences of failing to observe the warning instructions. The signal word points out the hazard level.

→ The measures for preventing the hazard and its consequences.

Caution - a possibly hazardous situation. Non-observance can result in minor injury.

SIHI_0101_GB

⚠ CAUTION

This line warns of the hazard !
Possible consequences of failing to observe the warning instructions. The signal word points out the hazard level.

→ The measures for preventing the hazard and its consequences.

Caution - a possibly hazardous situation. Non-observance can cause material damage.

SIHI_0102_GB

CAUTION

This line warns of the hazard !
Possible consequences of failing to observe the warning instructions. The signal word points out the hazard level.

→ The measures for preventing the hazard and its consequences.

Note - provide information on particular characteristics and how to proceed.

2 GENERAL SAFETY INSTRUCTIONS

2.1 SAFETY INSTRUCTIONS FOR THE OPERATOR

→ Keep these operating instructions to hand near the unit at all times.
→ Always follow local regulations concerning occupational safety and accident prevention.

2.1.1 ELECTRICAL EQUIPMENT

Electrical plant and unit
→ To be provided in accordance with the local safety requirements with regard to the operating mode and ambient influences.
→ May only be maintained by skilled electricians or under their supervision.
→ Must be operated in accordance with the safety regulations and electrotechnical regulations.
→ Must be repaired immediately in the event of problems.
→ Must be put out of operation if they pose a hazard.
→ Must be de-energized before work is commenced on active parts. Inform staff about planned work, observe electrical safety regulations.

2.1.2 PERSONNEL QUALIFICATIONS

→ Ensure that the unit is operated and repaired only by trained persons.

2.1.3 A SAFE WORK ENVIRONMENT

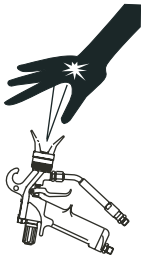
→ Ensure that the floor of the working area is anti-static in accordance with EN 50053 Part 1, §7-2, measurement in accordance with DIN 51953.
→ Ensure that all persons within the working area wear anti-static shoes, e.g. shoes with leather soles.
→ Ensure that during spraying, persons wear anti-static gloves so that they are earthed via the handle of the spray gun.

→ Customer to provide paint mist extraction systems conforming to local regulations.
→ Ensure that the following components of a safe working environment are available:
  – Material/air hoses adapted to the working pressure
  – Personal safety equipment (breathing and skin protection)
→ Ensure that there are no ignition sources such as naked flame, glowing wires or hot surfaces in the vicinity. Do not smoke.

2.2 SAFETY INSTRUCTIONS FOR PERSONNEL

→ Always follow the information in these instructions, particularly the general safety instructions and the warning instructions.
→ Always follow local regulations concerning occupational safety and accident prevention.

2.2.1 SAFE HANDLING OF WAGNER SPRAY UNITS



The spray jet is under pressure and can cause dangerous injuries.
Avoid injection of paint or cleaning agents:
- → Never point the spray gun at people.
- → Never reach into the spray jet.
- → Before all work on the unit, in the event of work interruptions and functional faults:
  - – Switch off the energy/compressed air supply
  - – Secure the spray gun against actuation.
  - – Relieve the pressure from the spray gun and unit.
  - – By functional faults: Identify and correct the problem, proceed as described in chap. „Trouble shooting".

In the event of skin injuries caused by paint or cleaning agents:
- → Note down the paint or cleaning agent that you have been using.
- → Consult a doctor immediately.

Avoid danger of injury through recoil forces:
- → Ensure that you have a firm footing when operating the spray gun.
- → Only hold the spray gun briefly in any one position.

2.2.2 EARTH THE UNIT

Electrostatic charges can occur on the unit due to the electrostatic charge and the flow speed involved in spraying. These can cause sparks and flames upon discharge.
- → Ensure that the unit is earthed for every spraying operation.
- → Earth the workpieces to be coated.
- → Ensure that all persons inside the working area are earthed, e.g. that they are wearing antistatic shoes.
- → When spraying, wear antistatic gloves to earth yourself via the spray gun handle.

2.2.3 MATERIAL HOSES

- → Ensure that the hose material is chemically resistant to the sprayed materials.
- → Ensure that the material hose is suitable for the pressure generated in the unit.
- → Ensure that the following information is visible on the high-pressure hose:
  - – Manufacturer
  - – Permissible operating overpressure
  - – Date of manufacture.
- → The electrical resistance of the complete high-pressure hose must be less than 1 MOhm.

2.2.4 CLEANING

→ De-energize the unit electrically.
→ Disconnect the pneumatic supply line.
→ Relieve the pressure from the unit.
→ Ensure that the flash point of the cleaning agent is at least 5 K above the ambient temperature.
→ To clean, use only solvent-free cloths and brushes. Never use hard objects or spray on cleaning agents with a gun.

An explosive gas/air mixture forms in closed containers.
→ When cleaning units with solvents, never spray into a closed container.
→ Earth the container.

2.2.5 HANDLING HAZARDOUS LIQUIDS, VARNISHES AND PAINTS

→ When preparing or working with paint and when cleaning the unit, follow the working instructions of the manufacturer of the paints, solvents and cleaning agents being used.
→ Take the specified protective measures, in particular wear safety goggles, protective clothing and gloves, as well as hand protection cream if necessary.
→ Use a mask or breathing apparatus if necessary.
→ For sufficient health and environmental safety: Operate the unit in a spray booth or on a spraying wall with the ventilation (extraction) switched on.
→ Wear suitable protective clothing when working with hot materials.

2.2.6 TOUCHING HOT SURFACES

→ Touch hot surfaces only if you are wearing protective gloves.
→ When operating the unit with a coating material with a temperature of >43°C; 109.4°F - Identify the unit with a warning label that says „Warning - hot surface“.

Order No.
9998910 Information label
9998911 Safety label

2.3 CORRECT USE

WAGNER accepts no liability for any damage arising from incorrect use.
→ Use the unit only to work with the materials recommended by WAGNER.
→ Operate the unit only as an entire unit.
→ Do not deactivate safety equipment.
→ Use only WAGNER original spare parts and accessories.

2.4 USE IN AN EXPLOSION HAZARD AREA

2.4.1 CORRECT USE

The unit is suitable for working liquid materials in accordance with the classification into explosion classes.

2.4.2 EXPLOSION PROTECTION IDENTIFICATION

As defined in the Directive 94/9/CE (ATEX 95), the unit is suitable for use in areas where there is an explosion hazard.

CE Ex II 2G IIB T3

CE: Communautés Européennes
Ex: Symbol for explosion protection
II: Unit class II
2: Category 2 (Zone 1)
G: Ex-atmosphere gas
IIB: Explosion class
T3: Temperature class: maximum surface temperature < 200°C; 392°F.

2.4.3 MAX. SURFACE TEMPERATURE

Max. surface temperature:	same as the permissible material temperature
Permissible ambient temperature:	see under Technical data, Section 4.3.3

2.4.4 SAFETY INSTRUCTIONS

Safe handling of WAGNER spray units

The maximum surface temperature of the piston pump can be reached if it runs dry.
→ Ensure that the piston pump is filled with sufficient working or cleaning medium.
→ Ensure that the separating agent container is filled with sufficient separating agent.

Mechanical sparks can form if the unit comes into contact with metal.
In an explosive atmosphere:
→ Do not knock or push the unit against steel or rusty iron.
→ Do not drop the unit.
→ Use only tools that are made of a permitted material.

Ignition temperature of the coating material
→ Ensure that the ignition temperature of the coating material is above the maximum surface temperature.

Medium supporting atomizing
→ To atomize the material, use only weakly oxidizing gases, e.g. air.

Surface spraying, electrostatic

→ Do not spray unit parts with electrostatic (e.g. electrostatic spray gun).

Cleaning

If there are deposits on the surfaces, the unit may form electrostatic charges. Flames or sparks can form if there is a discharge.

→ Remove deposits from the surfaces to maintain conductivity.

→ Use only a damp cloth to clean the unit.

3 PRODUCT LIABILITY AND WARRANTY

3.1 IMPORTANT NOTES ON PRODUCT LIABILITY

As a result of an EC regulation, effective as from January 1, 1990, the manufacturer shall only be liable for his product if all parts come from him or are approved by him, and if the devices are properly fitted , operated and maintained.
If other makes of accessory and spare parts are used, the manufacturer's liability could be fully or partially null and void.
The usage of original WAGNER accessories and spare parts guarantees that all safety regulations are observed.

3.2 WARRANTY

This unit is covered by our warranty on the following terms:
We will at our discretion repair or replace free of charge all parts which within 36 months in single-shift, 18 months in 2-shift or 9 months in 3-shift operation from date of receipt by the Purchaser are found to be wholly or substantially unusable due to causes prior to the sale, in particular faulty design, defective materials or poor workmanship.

The terms of the warranty are met at our discretion by the repair or replacement of the unit or parts thereof. The resulting costs, in particular shipping charges, road tolls, labour and material costs will be borne by us except where these costs are increased due to the subsequent shipment of the unit to a location other than the address of the purchaser.

This warranty does not cover damage caused by:
Unsuitable or improper use, faulty installation or commissioning by the purchaser or a third party, normal wear, negligent handling, defective maintenance, unsuitable coating products, substitute materials and the action of chemical, electrochemical or electrical agents, except when the damage is attributable to us.

Abrasive coating products such as redlead, emulsions, glazes, liquid abrasives, zinc dust paints and similar reduce the service life of valves, packings, spray guns, nozzles, cylinders, pistons etc. Any wear resulting from the aforementioned causes is not covered by this warranty.

Components not manufactured by Wagner are subject to the warranty terms of the original maker.
The replacement of a part does not extend the warranty period of the unit.
The unit should be inspected immediately upon receipt.

To avoid loss warranty, aniy apparent defect should be notified to us or the dealer in writing within 14 days from date of sale of the unit.

The right to commission warranty services to a third party is reserved.
Warranty claims are subject to proof of purchase by submitting an invoice or delivery note
If an inspection finds damage not covered by the present warranty, the repair will be carried out at the expense of the purchaser.

Note that this warranty does not in any way restrict legally entitled claims or those contractually agreed to in our general terms and conditions.

J. Wagner AG

3.3 CE-CONFORMITY

Short explanation

CE = Communauté Européenne

Products identified with the CE mark have been manufactured and checked according to EU guidelines. This means that, in terms of materials used, manufacturing process and operation, they are in accordance with the EU safety and health requirements and therefore the EU regulations and standards. The regulations and standards applying to a particular product can be found in the CE Certificate of Conformity. This is enclosed with the product or can be requested from the manufacturer.

The CE identification has been compulsory in Europe since 1st January 1995, and only products bearing CE identification may be released into circulation.

EC Certificate of Conformity
The certificate is enclosed with this product. The certificate of conformity can be reordered from your WAGNER representative, quoting the product and serial number.

Part number:
0370930

4 DESCRIPTION

4.1 TYPICAL APPLICATIONS

4.1.1 USING IN ACCORDANCE WITH THE INSTRUCTIONS

The pneumatic piston pump is suitable for process liquid materials according chapter 4.1.2.

4.1.2 SUITABLE SPRAY MATERIALS

Application	Tiger 72-300
Water based laquers and paints	↗
Solvent based laquers and paints	↗
Primers	↗
Epoxy and polyurethane paints and laquers	↗
Synthetic materials	↗
Wax based underseal	↗

CAUTION

Abrasive materials and pigments!
Greater wear of the parts carrying the material.

→ Use suitable combinations of devices (packages, valves etc.).

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4.1.3 TYPICAL APPLICATIONS

Application	Tiger 72-300
Furniture industry	↘
Kitchen manufacturers	↘
Joinery	↘
Window factories	↘
Steel fabrication	↗
Construction of vehicles	➟
Offshore	↗

legend
recommended ↗ limited suitability ➟ less suitable ↘

4.2 SCOPE OF SUPPLY

Qty	Part-No.	Description
1	0370001	Pneumatic piston pump consisting of material pump, air motor, connection elements and air regulator for airless work.
1	0370002	Pneumatic piston pump consisting of material pump, air motor, connection elements without air regulator for airless work.

The delivery note shows the exact scope of delivery.
Accessories and spraypacks: See chapter 7.

The standard equipment includes:

Menge		Bestell-Nr.	Bezeichnung
0370001	0370002		
1	1	9992504	Separating fluid 250 ccm
1	1	0367805	Information plate
1	1	0370930	Certificate of Conformity
1	1	9974126	Sealing ring
1	1	0369958	Double nipple G1 1/2“ - M36x2
1	1	9990501	Protection cap yellow
1	1	9990518	Protection plug yellow
0	1	9990543	Tapered stopper natural
1	1	0370850	Operating manual german
1	1	see 1.0	Operating manual in the local language

4.3 DATA

4.3.1 MATERIALS OF PAINT WETTED PARTS

Housing	Stainless steel
Piston	Stainless steel, hard chromium plated
Valve balls	Stainless steel
Valve seats	Tungsten carbide
O-rings	Teflon
V-packing	Standard PE/L

PE = Polyethylene UHMW
L = Leather

4.3.2 RECOMMENDED V-PACKINGS

WAGNER V-packings are manufactured in four different materials:

Code	Material	Color
L	Leather	dark brown
TG	Teflon with graphite	black
PE	Polyethylene UHMW	transparent
T	Teflon	white

Each material has the following properties, which influence the packings:

	L	**TG**	**PE**	**T**
Mechanical stability	poor	good	good	poor
Coefficient of friction	poor	very good	good	very good
Sealing capacity	good*	good	good	good
Chemical resistance or reactivity	poor	good	very good	very good
Temperature stability	good	poor - good	very good	poor

* for abrasive materials

Standard combinations
Heavy duty (HD) pumps PE/L

4.3.3 TECHNICAL DATA

Description	**Units**	**Tiger 72-300**
Transmission ratio		72 :1
Flow volume per double stroke (DS)	cm^3 cc	300
Max. operating pressure	MPa bar psi	53 530 7687
Max. possible strokes in operation	DS/min	40
Min. - Max. air inlet pressure	MPa bar psi	0,25-0,74 2,5-7,4 36-107
Ø air inlet connection (female)	Zoll Inch	G 1“
Min. Ø compressed air hose	mm Inch	25 0.984
Air consumption (at 6 bar) per DS	nl scf	170 6
Sound pressure level at max. permissible air pressure*	dB(A)	82

Technical data

Description	Units	Tiger 72-300
Sound pressure level at 6 bar*	dB(A)	80
Sound pressure level at 4 bar*	dB(A)	75
Ø piston of air motor	mm Inch	320 12.6
Ø material inlet connection (female)	Zoll Inch	G 1 1/2“
Ø material outlet connection (female)	Zoll Inch	G 3/4“
Weight	kg lb	80 176
pH range of the material	pH	3,5 ÷ 9
Max. material pressure at pump inlet	MPa bar psi	2 20 290
Range of material temperature	°C F	+5 ÷ +80 41 ÷176
Range of the ambient temperature	°C	+5 ÷ +60 41 ÷140
allowable sloping position at work	∢°	± 10

* A rated sound pressure level meassured at 1 m distance according to DIN EN ISO 3746-1995

Reference measurements have been made by SUVA (Swiss accident insurance institute).

⚠WARNING

Outgoing air containing oil!
Risk of poisoning if inhaled.

→ Provide water-free and oil-free compressed air (quality standard 5.5.4 as per ISO 8573.1) 5.5.4 = 40 µm / +7 / 5 mg/m³.

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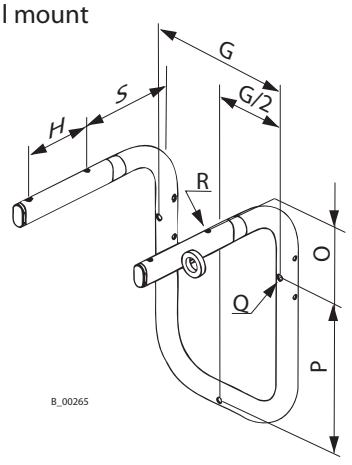
4.3.4 DIMENSIONS AND CONNECTIONS

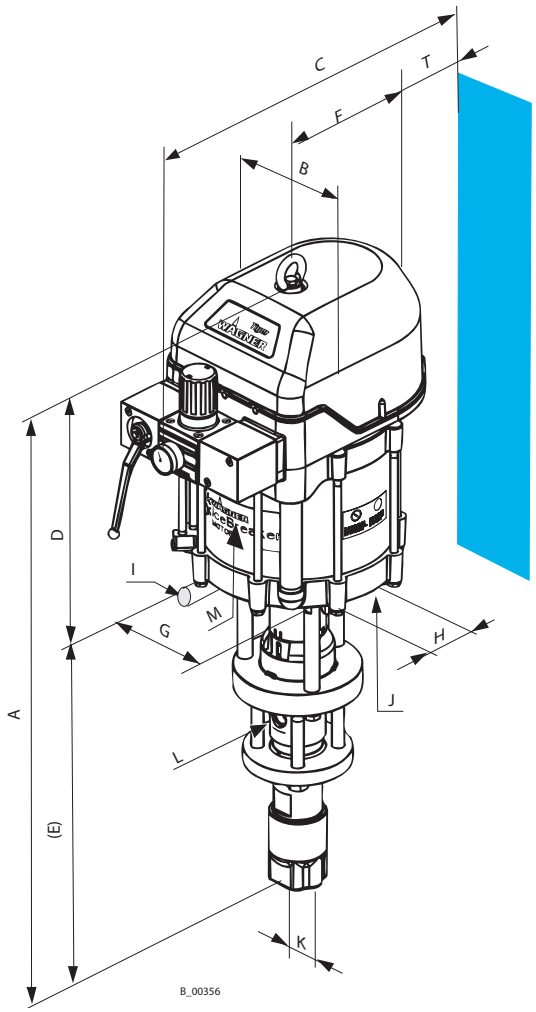
	Tiger 72-300	Unit
A	1107 43.6	mm inch
B	340 13.4	mm inch
C	622 24.5	mm inch
D	537 21.1	mm inch
E	570 22.4	mm inch
F	244 9.6	mm inch
G	230 9.1	mm inch
H	110 4.3	mm inch
I	oval 20x48 0.8x1.9	mm inch
J	M8	mm

	Tiger 72-300	Unit
K	G 1 1/2“	Zoll / Inch
L	G 3/4“	Zoll / Inch
M	G 1“	Zoll / Inch
O	135 5.3	mm inch
P	238 9.4	mm inch

	Tiger 72-300	Unit
Q	ø 9 0.35	mm inch
R	ø 9 0.35	mm inch
S	271 10.7	mm inch
T	97 3.8	mm inch

Wall mount





4.3.5 VOLUME FLOW

Airless tip			volume flow in l/ min.*		
ø inch	ø mm	Spray angle	at 7 MPa 70 bar 1015 psi	at 10 MPa 100 bar 1450 psi	at 15 MPa 150 bar 2175 psi
0.007	0.18	40°	0,1650	0,2000	0,2400
0.009	0.23	20-30-40-50-60°	0,2060	0,2500	0,3090
0.011	0.28	10-20-30-40-50-60°	0,2950	0,3450	0,4260
0.013	0.33	10-20-30-40-50-60-80°	0,4530	0,5280	0,6600
0.015	0.38	10-20-30-40-50-60-80°	0,5770	0,6720	0,8130
0.017	0.43	20-30-40-50-60-70°	0,7310	0,7860	1,0640
0.019	0.48	20-30-40-50-60-70-80°	0,9260	1,0920	1,3700
0.021	0.53	20-40-50-60-80°	1,1430	1,3600	1,6900
0.023	0.58	20-40-50-60-70-80°	1,3700	1,5900	2,0100
0.025	0.64	20-40-50-60-80°	1,6200	1,9100	2,4000
0.027	0.69	20-40-50-60-80°	1,8300	2,1300	2,6800
0.029	0.75	60°	2,1900	2,5100	3,1700
0.031	0.79	20-40-50-60°	2,4000	2,7700	3,4900
0.035	0.90	20-40-50-60°	3,2200	3,7400	4,6900
0.043	1.10	20-50°	5,0700	6,0400	7,4600
0.052	1.30	50°	5,1200	6,5000	7,5200

* Flow volume refers to water.

4.3.6 PERFORMANCE DIAGRAMS

Example

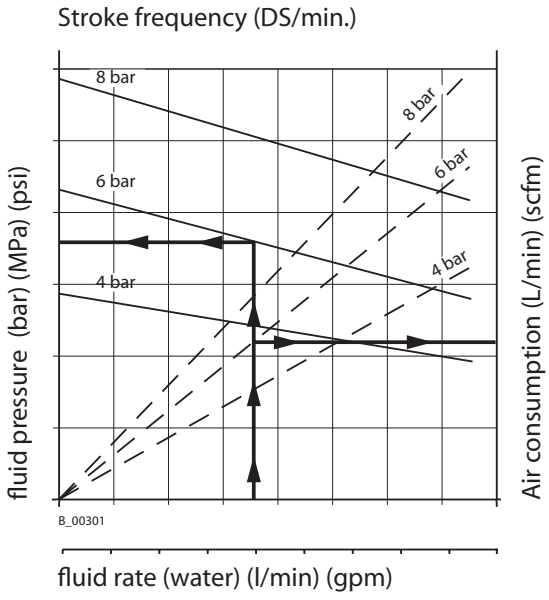
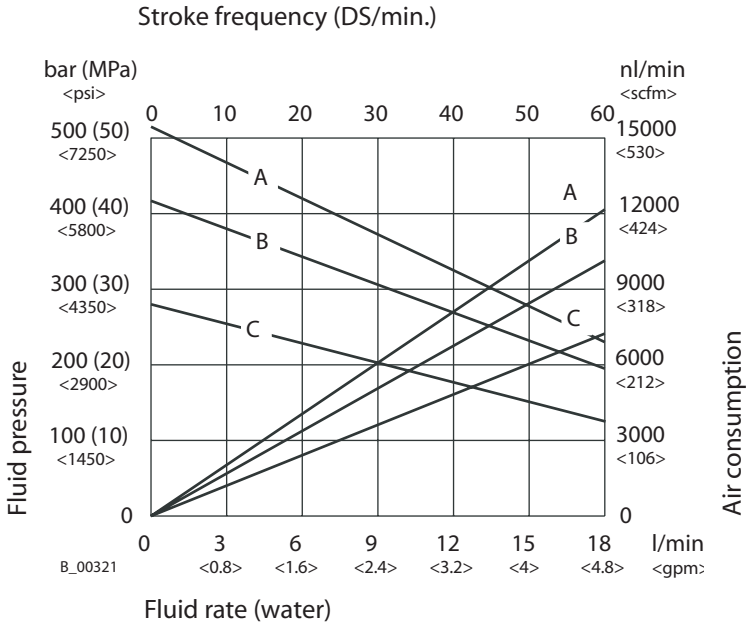


Diagram TIGER 72–300

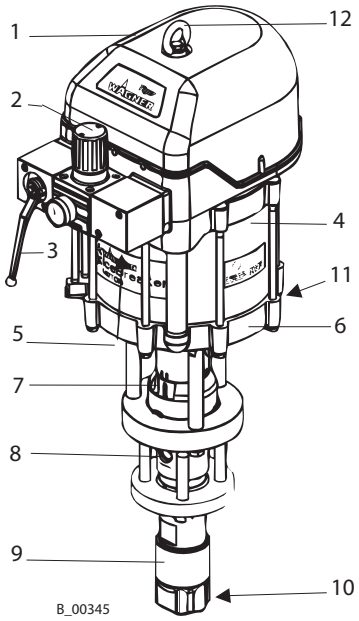


A = 7.4 bar (0.74 MPa/ 107 psi) Air pressure
B = 6 bar (0.6 MPa/ 87 psi) Air pressure
C = 4 bar (0.4 MPa/ 58 psi) Air pressure

4.4 FUNCTIONS

4.4.1 PUMP

1 Control housing with integrated silencer
2 Air regulator
3 Ball valve
4 Air motor
5 Compressed air connection
6 Mounting flange
7 Separating fluid cup
8 Material outlet
9 Material pump
10 Material inlet
11 Earthing connection



General
The piston pump is driven with compressed air. This compressed air moves up and down the air piston in the air motor (4) and thus also the pump piston in the material pump (9). At the end of each stroke the compressed air is redirected by a changeover valve and the control piston. Working materials are sucked in on the upward stroke and simultaneously conveyed to the gun in both strokes.

Air motor (4)
The air motor with its pneumatic reverse (1) does not require pneumatic oil. The compressed air is fed to the motor over the air regulator (2) and the ball valve (3).

The air motor is fitted with a safety valve. The safety valve has been set and sealed at the factory.
With pressures over and above the permissible operating pressure the valve, which is held with a spring, automatically opens and releases the excess pressure.

⚠WARNING

Overpressure!
Risk of injury from bursting components.

→ Never change the safety valve setting.

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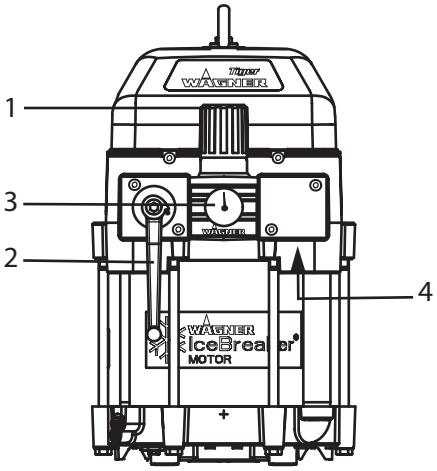
Material pump (9)
The material pump has been designed as a piston pump with exchangeable ball valves. The hard chrome-plated pump piston runs in two fixed packings which are self-adjusting by means of a pressure spring, thus resulting in a long lifespan.
Between the air motor and material pump there is a separating fluid cup (7) for holding the separating fluid.

4.4.2 PRESSURE REGULATOR UNIT

1 Air pressure regulator
2 Ball valve
3 Manometer
4 Compressed air connection



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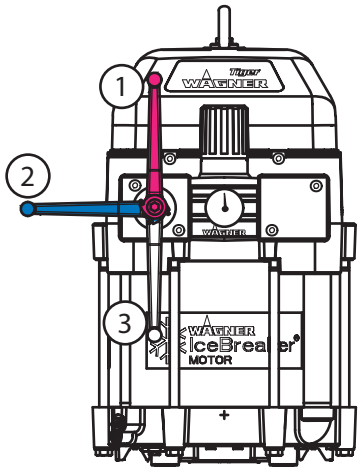


B_00352

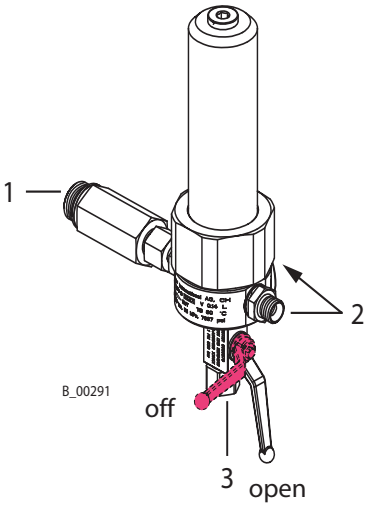
Position of the ball valve:

1 Closed: Operating pressure in the air motor will be vented. (Control pressure is available)
2 Closed: The air motor can still be under pressure.
3 Open: Working position.

4.4.3 HIGH-PRESSURE FILTER (OPTIONAL)

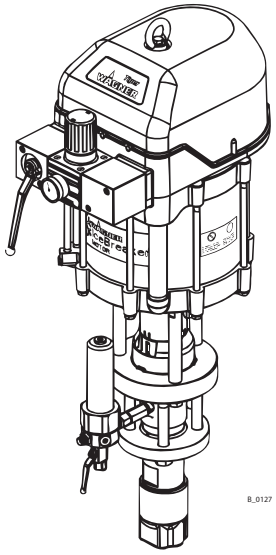
4.4.3.1 STANDARD HP-FILTER (OPTIONAL)

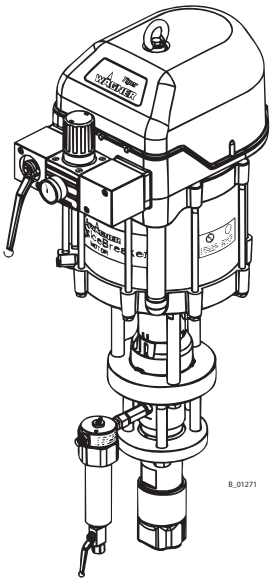
To ensure problem-free operation it is recommended that a WAGNER high-pressure filter is used. These have been developed especially for the respective pneumatic pumps.
The filter inserts can be exchanged depending on the material to be used. You will find the respective high-pressure filters and their inserts for the device in the accessory list.



1 Connection, pump
2 Two material outlets
3 Return

Mounting variants





5 STARTING UP AND OPERATION

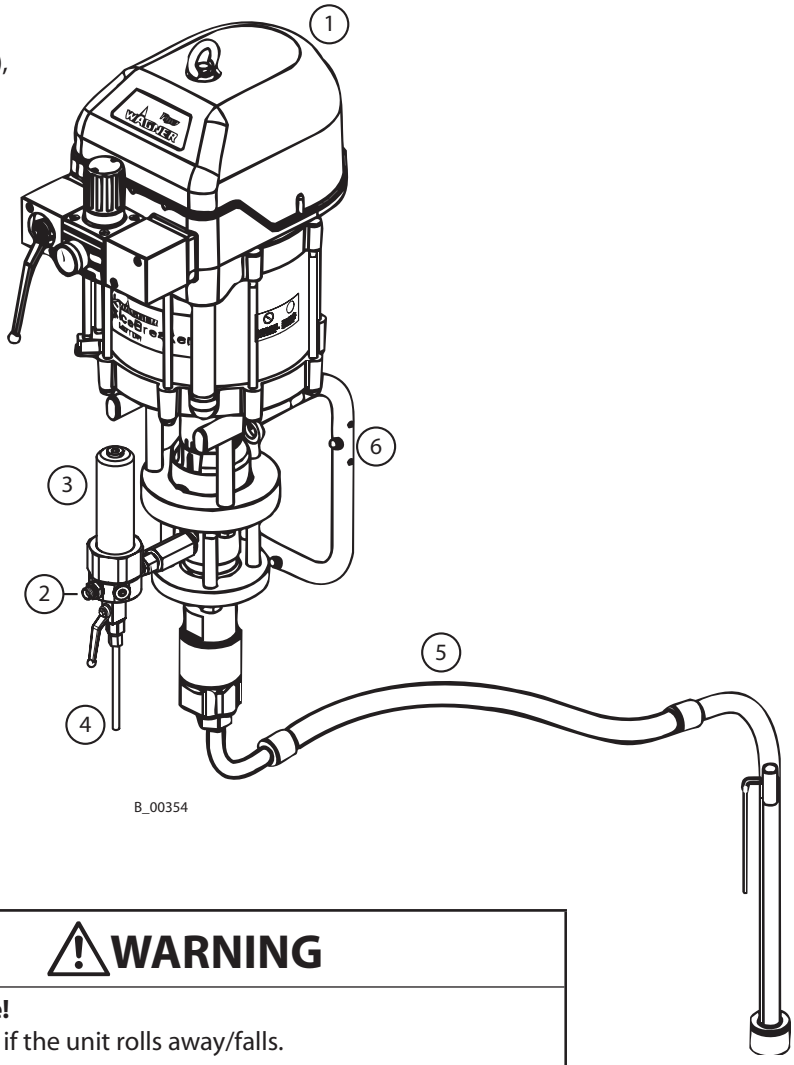
5.1 SET UP AND CONNECT

5.1.1 SET UP

Note
This pump can be used as part of a spraying system for Airless applications. The components can be found in the accessories list, provided that the system was not obtained as a spraypack.
The tips must be selected according to the gun instructions.

Procedure:

1. Assemble the pump on a stand (6), a trolley or wall mounting.
2. Attach high-pressure filter (3) (optional).
3. Fit suction system (5).
4. Attach return hose (4) (optional).
5. Connect high-pressure hose and gun (2) as laid down in operating instructions.



B_00354

	⚠ WARNING
	Inclined surface! Risk of accidents if the unit rolls away/falls. → Position the carriage with the piston pump horizontally. → If the surface is inclined, position the feet of the carriage towards the gradient. → Secure the carriage.

SIHI_0012_GB

5.1.2 EARTHING

⚠WARNING

Discharge of electrostatically charged components in atmospheres containing solvents!
Explosion hazard from electrostatic sparks or flames.

→ Earth all unit components.
→ Earth the workpieces being painted.

SIHI_0027_GB

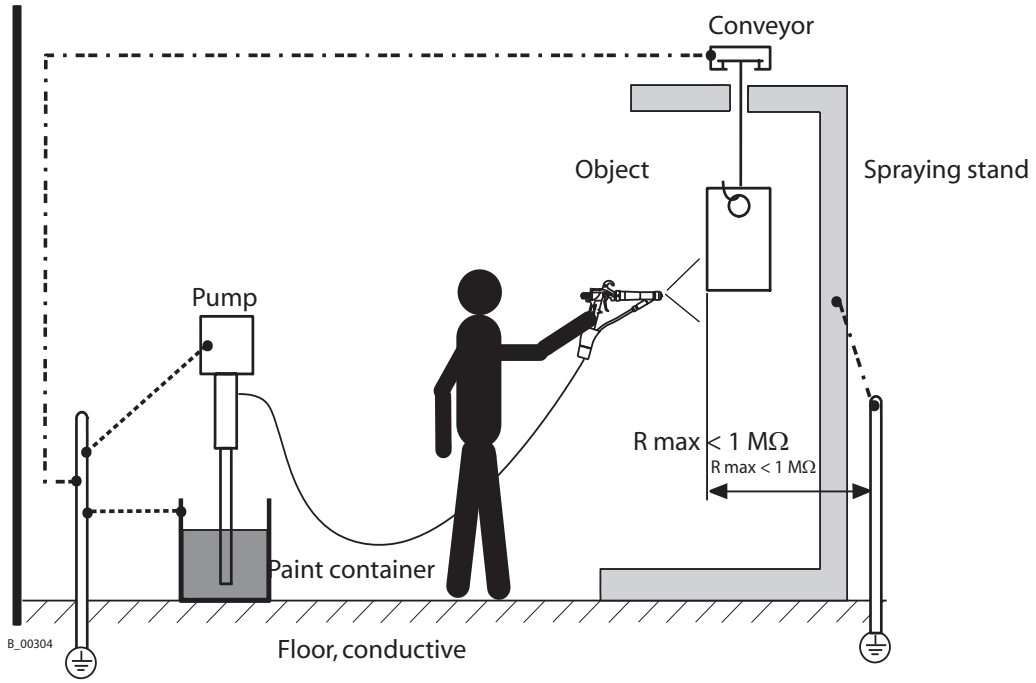
⚠WARNING

Heavy paint mist if earthing is insufficient!
Risk of poisoning.
Insufficient paint application quality.

→ Earth all unit components.
→ Earth the workpieces being painted.

SIHI_0003_GB

Earthing scheme (example)

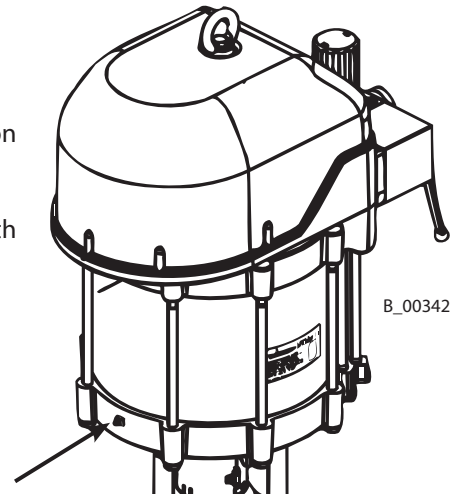


Cable cross sections

Pump	4 mm²
Paint container	6 mm²
Conveyor	16 mm²
Spraying booth	16 mm²
Spraying stand	16 mm²

Procedure:

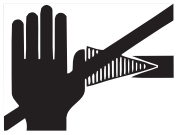
1. Screw on earthing cable with eye.
2. Clamp the earthing cable clip to a earth connection on site.
3. Earth the material container to a local earth connection.
4. Earth the other parts of the system to a local earth connection.



5.2 STARTING UP

5.2.1 SAFETY NOTES

Every time before starting up the following points should be observed as laid down in the operating instructions:
- That it is possible to observe the safety regulations in Chap. 2.
- The starting up procedure, has been carried out properly.



⚠WARNING

High-pressure spray jet!
Danger to life from injecting paint or solvent.

→ Never reach into the spray jet.
→ Never point the spray gun at people.
→ Consult a doctor immediately in the event of skin injuries caused by paint or solvent. Inform the doctor about the paint or solvent used.
→ Never seal defective high-pressure parts, instead relieve the pressure from them and replace.

SIHI_0016_GB

⚠WARNING

Unintentional putting into operation!
Risk of injury.

Before all work on the unit, in the event of work interruptions and functional faults:
→ Switch off the energy/compressed air supply.
→ Relieve the pressure from the spray gun and unit.
→ Secure the spray gun against actuation.
→ By functional faults: Identify and correct the problem, proceed as described in chap„Trouble shooting“.

SIHI_0065_GB

⚠WARNING

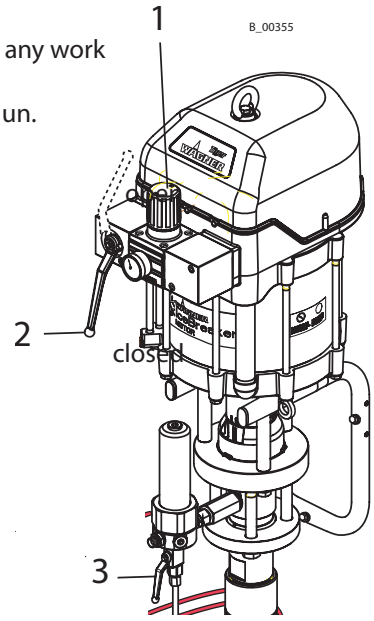
Gas mixtures can explode if there is an incompletely filled pump!
Danger to life from flying parts.

→ Ensure that the piston pump and suction system are always completely filled with cleaning agent or working medium.
→ Do not spray the unit empty after cleaning.

SIHI_0025_GB

Before every start-up, the following points should be observed as laid down in the operating manual:
- Secure gun with safety catch
- Check the permissible pressures
- Check all connections for leaks

It should be ensured that the system is in the following state before carrying out any work on it:
- The pressure should be released from the pump and high-pressure hose with gun.
- The gun should be secured with safety catch.
- The air supply should be interrupted.



Emergency off
In the case of unforeseen occurrences the ball valve (2) should be closed immediately and the return valve (3) opened.

5.2.2 FILLING WITH SEPARATING FLUID

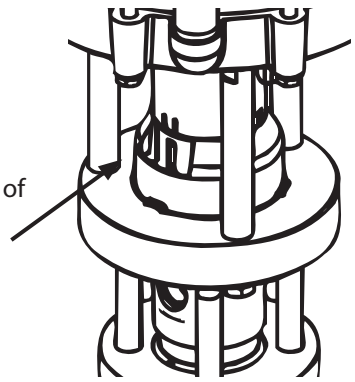
CAUTION

Piston pump dry run!
High wear/damage to the packages.
Paint or solvent can escape if the seals are dry.

→ Ensure that the separating agent container is filled with sufficient separating agent. Filling level 1 cm; 25.4 in under the pot edge.

SIHI_0018_GB

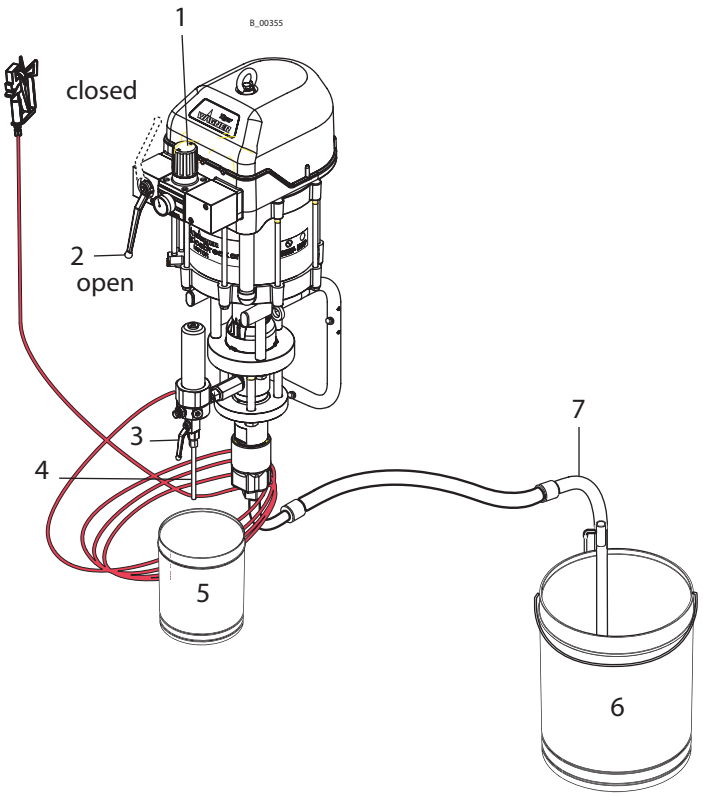
Place the supplied separating fluid into the separating fluid cup.
Fill to 1 cm under the edge of the cup.
Separating fluid: Part no. 9992504



Note
When preparation has taken place the max. allowed leaning angle of the pumpe is ± 30° for moving, transport, etc.

5.2.3 BASIC CLEANING

1. Place empty container (5) under return tube (4).
2. Place suction hose (7) in a container with solvent (6).
3. Set pressure regulator (1) to approx. 0.5 bar.
4. Open return valve (3).
5. Slowly open ball valve (2).
6. Adjust the air pressure on the pressure regulator (1) so that the pump runs regularly.
7. Rinse the system until clean solvent flows into the container (5).
8. Close ball valve (2).
9. Close return valve (3).
10. Point the gun, without tip, into container (5) and open it.
11. Slowly open ball valve (2).
12. Rinse until clean solvent flows from the gun.
13. Close ball valve (2).
14. When there is no pressure remaining in the system close gun.
15. Secure gun.
16. Dispose of the contents of the container



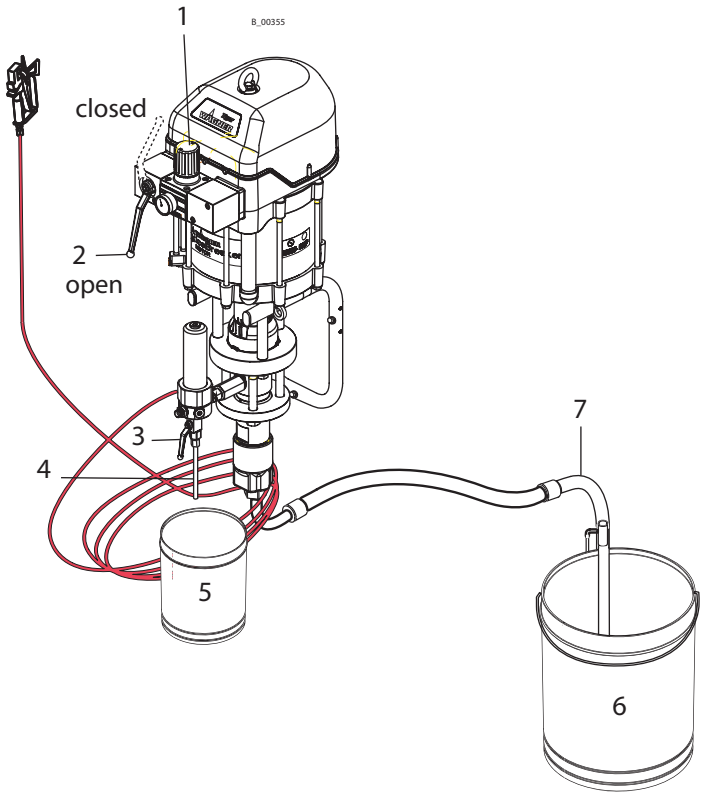
5.2.4 FILLING WITH WORKING MATERIAL

1. Place empty container (5) under return tube (4).
2. Place suction hose (7) in the container with working material (6).
   Note:
   If the pump is equiped with a rigid suction system, it should only be diped in into the working material in maximum to the middle of the inlet housing !
3. Set pressure regulator (1) to approx. 0.5 bar.
4. Open return valve (3).
5. Slowly open ball valve (2).
6. Adjust the air pressure on the pressure regulator (1) so that the pump runs regularly.
7. Close ball valve (2) as soon as pure working material starts coming from the return hose.
8. Close return valve (3).
9. Point the gun, without tip, into container (5) and open it.
10. Slowly open ball valve (2).
11. Close ball valve (2) as soon as pure working material starts coming from the gun.
12. When there is no pressure remaining in the system close gun.
13. Secure gun.
14 . Dispose of the contents of the container (5) according to the local regulations.

5.3 WORKING

5.3.1 SPRAYING

1. Secure gun and place tip in the gun.
2. Slowly open ball valve (2).
3. Set required working pressure on the pressure regulator (1).
4. Optimize the spraying results as laid down in the gun instructions.
5. Start work process.



5.3.2 WORKING BREAK

1. Close gun.
2. Close ball valve (2).
3. Release the system by opening the gun.
4. Close and secure gun.

If the system has been used with two component material:

⚠	**⚠ WARNING**
	Hardened material in the spraying system when 2-component material is worked! Destruction of the pump and injection system. → Follow the manufacturer's working instructions, particularly regarding the pot life. → Rinse thoroughly before the end of the pot life. → The potlife time decreases at raising temperature.

SIHI_0069_GB

5.3.3 SHUTTING DOWN AND CLEANING

Note
The device should be cleaned for maintenance purposes, etc. Ensure that no remaining material dries and sticks.

Procedure:
1. Working break -> carry out Paragraph 5.3.2.
2. Basic cleaning -> carry out Paragraph 5.2.3.
3. Maintain the gun as laid down in the operating instructions.
4. Clean and check the suction system and, in particular, the suction filter.
5. When using a high-pressure filter: Clean and check the filter insert and filter body.
6. Clean the outside of the system.

⚠WARNING

Brittle filter pressure regulator!
The container on the filter pressure regulator becomes brittle through contact with solvents and can burst.
Flying parts can cause injury.

→ Do not clean the container on the pressure regulator with solvent.

SIHI_0014_GB

7. Put the whole system back together.
8. Check the level of the separating fluid -> Paragraph 5.2.2.
9. Fill the system with solvent as laid down in Paragraph 5.2.4 „Filling with working material".

⚠WARNING

Gas mixtures can explode if there is an incompletely filled pump!
Danger to life from flying parts.

→ Ensure that the piston pump and suction system are always completely filled with cleaning agent or working medium.
→ Do not spray the unit empty after cleaning.

SIHI_0025_GB

5.4 LONG-TERM STORAGE

When storing the device for longer periods of time it is necessary to thoroughly clean it and protect it from corrosion. Replace the water or solvent in the material pump with a suitable preserving oil. Fill separating fluid cup with separating fluid.

Procedure:
1. Carry out Paragraph 5.3.3 „Shutting down and cleaning", points 1 through 9.
2. Cleaning with preserving agent acc. Paragraph 5.2.3.
3. Protect the air motor with pneumatic oil: connect an oiler to the compressed air inlet and run for a few double strokes.

6 TROUBLESHOOTING AND MAINTENANCE

6.1 ELIMINATING FAULTS

Problem	Cause	Remedy
The pump does not work	Air motor does not work or stops	Open and close ball valve on the pressure regulator unit or disconnect compressed air supply shortly.
	No pressure indication (pressure regulator defect)	Dissconnect compressed air supply shortly or repair or change pressure regulator
	Spray tip is clogged	Clean tip as laid down in the instructions
	Insufficient supply of compressed air	Check compressed air supply
	Filter insert in spray gun or high-pressure filter is clogged	Clean the parts and use an appropriate spraying material
	Material feed pump or high-pressure hose are blocked (e.g., two-component material hardened)	Dismantle the paint pump and clean, replace high-pressure hose
	Grease in spool-sleeve combination (airmotor stops at the stroke end)	Degrease spool-sleeve combination, checkdetent body. (use service manual)
Bad spraying results	See gun instructions	
Irregular operation of material feed pump: spray jet collapses. (pulsation)	Viscosity to high	Dilute working material
	Spraying pressure to low	Increase incoming air pressure, use smaller tip
	Valve stuck	Clean material pump, if necessary leave to soak in solvent
	Foreign body in suction valve	Dismantle suction valve housing, clean and check valve seat
	Diameter of the compressed air line too small	Assemble a larger incoming line ->technical data, paragraph 4.3.3
	Valves, packings or pistons worn	Replace parts
	Filter for control air or filter for work air is clogged	Check filter and clean it
Pump runs evenly, however does not suck up material	Union nut of the suction system is loose, pump is taking in air	Tighten
	Suction filter clogged	Clean filter
	Ball in suction or piston valve is sticking	Clean with solvent (if necessary vent device)
Pump runs when the gun is closed	Packings, valves, pistons worn	Replace parts

Eliminating faults

Problem	Cause	Remedy
Air motor iced up	A lot of condensation water in the air supply.	Install a water separator.

If the problem is not listed above consult your WAGNER Service Center

6.2 MAINTENANCE

⚠WARNING

Incorrect maintenance/repair!
Risk of injury and damage to the equipment.

→ Repairs and part replacement may only be carried out by specially trained staff or a WAGNER service center.
→ Before all work on the unit and in the event of work interruptions:
- Switch off the energy/compressed air supply.
- Relieve the pressure from the spray gun and unit.
- Secure the spray gun against actuation.
→ Observe the operating and service instructions when carrying out all work.

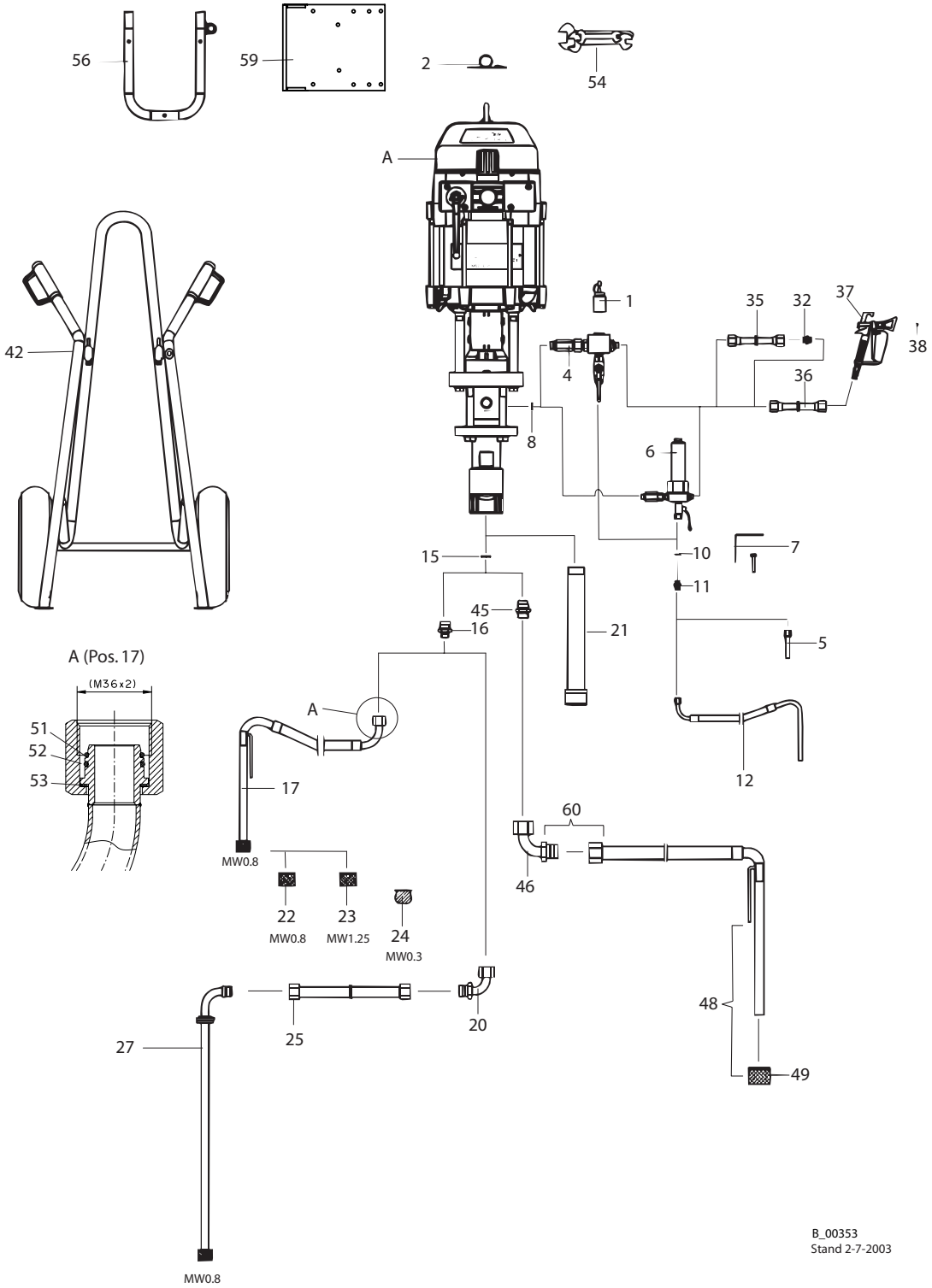
SIHI_0004_GB

1. Check the level of separating fluid in the separating fluid cup every day, and top up if necessary.
2. Check and clean the high-pressure filter every day or as required.
3. Every shut down should be carried out as laid down in paragraph 5.3.3 !
4. Check and replace if necessary hoses, tubes, couplings every days.

WAGNER recommends to check the whole spray system every year from a technical expert (e.g. WAGNER service technician).

7 ACCESSORIES

7.1 ACCESSORIES



List accessories

Item	K	Part No.	Description
A		0370001	Piston pump (Metric)
A		0370101	Piston pump (NPSM)
1		9992504	Separating fluid 250 cc (ml)
1		0356940	Separating fluid 10 L (2.6 gal)
2		0236219	Earthing cable 3 m (9.8 ft)
4		0370099	Distributor assy.
5		0367126	Relief tube assy.
6		0370010	HP-filter HPF-3 3/4“ metric M16x1.5
6		0370110	HP-filter HPF-3 3/4“ NPSM 3/8“
7		0367115	Wall mounting complet for item 6
8	◆	0370920	O-ring
10	◆	9974111	Sealing ring Al
11		0367962	Double nipple G3/8“-M20x2
12		0367141	Return hose DN 13 mm (ID 0.51 in) M20x2
15	◆	9974126	Sealing ring Al
15	◆	9974151	Sealing ring Cu
16		0369958	Double nipple G1 1/2“- M36x2
17		0367140	Flexible suction hose DN25 (ID 1 in)
20		0097075	Suction elbow
21		0370151	Suction tube, assy. G 1 1/2“
22	◆	0250245	Filter DN 25 (ID 1 in); MW 0.8 mm (MW 0.03 in); M28x1.5
23	◆	0250243	Filter DN 25 (ID 1 in); MW 1.25 mm (MW 0.05 in); M28x1.5
24	◆	0097531	Suction filter bag MW 0.3 mm (MW 0.01 in)
25		0115285	Extension hose, complete DN 25 mm (ID 1 in)
27		0115175	Barrel suction pipe, assy.
32		0123446	Double nipple M16x1.5 (for hose extension)
32		0367561	Double nipple 3/8 NPSM-1/4 NPSM (for hose extension)
32		0367560	Double nipple 1/4 NPSM-1/4 NPSM (for hose extension)
32		0256343	Double nipple 3/8 NPSM-3/8 NPSM (for hose extension)
35	◆	9987008	High-pressure hose M16x1.5; DN 10 mm (ID 0.39 in); 15 m (49.2 ft); ND 53 MPa; 530 bar; 7690 psi
35	◆	9984420	High-pressure hose M16x1.5; DN 6 mm (ID 0.24 in); 10 m (32.8 ft); ND 53 MPa; 530 bar; 7690 psi
35	◆	9987118	High-pressure hose 3/8 NPSM; DN 10 mm (ID 0.39 in); 15 m (49.2 ft); ND 53 MPa; 530 bar; 7690 psi
36	◆	9987007	High-pressure hose M16x1.5; DN 6 mm (ID 0.24 in); 1.5 m (4.9 ft); ND 53MPa; 530 bar; 7690 psi

◆ = Wear parts

List accessories

Item	K	Part No.	Description
36	◆	9987117	High-pressure hose 1/4 NPSM; DN 6 mm (ID 0.24 in); 1.5 m (4.9 ft); ND 53MPa; 530 bar; 7690 psi
36	◆	9984421	High-pressure hose 1/4 NPSM; DN 6 mm (ID 0.24 in); 10 m (32.8 ft); ND 53MPa; 530 bar; 7690 psi
37	◆	0347001	Airless gun G15; 1/4 NPSM; 53 MPa; 530 bar; 7690 psi
37	◆	0347002	Airless gun G15; M16x1,5; 53 MPa; 530 bar; 7690 psi
38	◆	0090 ...	Standard tip -> Tip list
42		0369 024	Trolley Heavy Duty
45		0369 960	Double nipple G1 1/2“
46		0118232	Suction elbow
48		0115859	Suction hose G1 1/2“
49		0115857	Filter 1 1/2“, MW 1.25 mm (MW 0.05 in)
51	◆	0367527	O-ring PTFE
52	◆	9974127	O-ring FEP
53	◆	0367959	Washer PTFE
54		0368870	Tool set
56		0369020	Mounting plate 9“ kpl.
59		0369023	Bracket assy. 4“ 6“ 9“
60		0369959	Suction hose G1 1/2“ with elbow

◆ = Wear parts

7.2 SPRAYPACKS

Type	Part No.	Consisting of accessories items:
Spraypack Tiger 72-300 AL Wagen	0370050	A, 1, 2, 5, 6, 10, 11, 15, 35, 36, 37, 42, 45, 60

8 SPARE PARTS

Always supply the following information to ensure delivery of the right spare part:

Part Number, description and quantity

The quantity need not be the same as the number given in the „Quantity" column. This number merely indicates how many of the respective parts are used in each subassembly.

The following information is also required to ensure smooth processing of your order:

- Address for the invoice
- Address for delivery
- Name of the person to be contacted in the event of any queries
- Type of delivery required (air freight or mail, sea route or overland route, etc.)

Marks in spare parts lists

Note to column „K" in the following spare parts lists.

◆ = Wearing parts
Note: No liability is assumed for wearing parts

● = Not part of standard equipment, available, however, as additional extra.

⚠WARNING

Incorrect maintenance/repair!
Risk of injury and damage to the equipment.

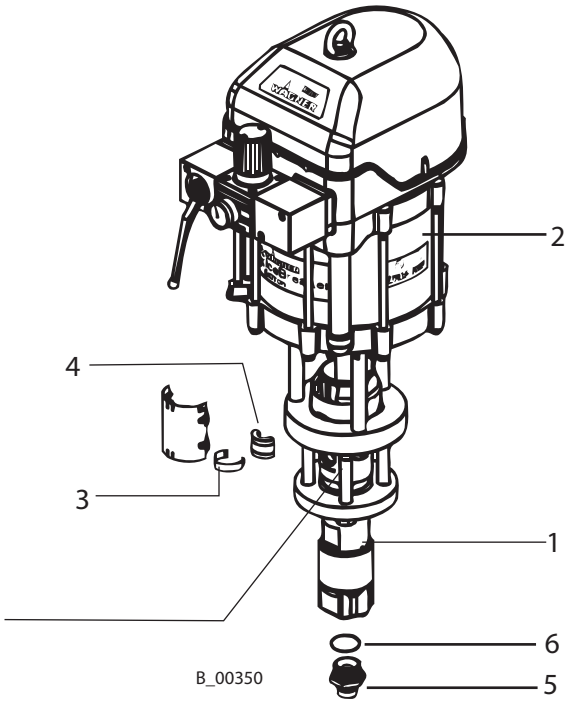
→ Repairs and part replacement may only be carried out by specially trained staff or a WAGNER service center.
→ Before all work on the unit and in the event of work interruptions:
- Switch off the energy/compressed air supply.
- Relieve the pressure from the spray gun and unit.
- Secure the spray gun against actuation.
→ Observe the operating and service instructions when carrying out all work.

SIHI_0004_GB

8.2 PNEUMATIC PISTON PUMP

Item	Part No.	Description
	0370001	Piston pump
1	0370070	Paint stage
2	0370080	Air motor
3	0370530	Spring
4	0370529	Coupling
5	0369958	Double nipple
6	9974126	Sealing ring

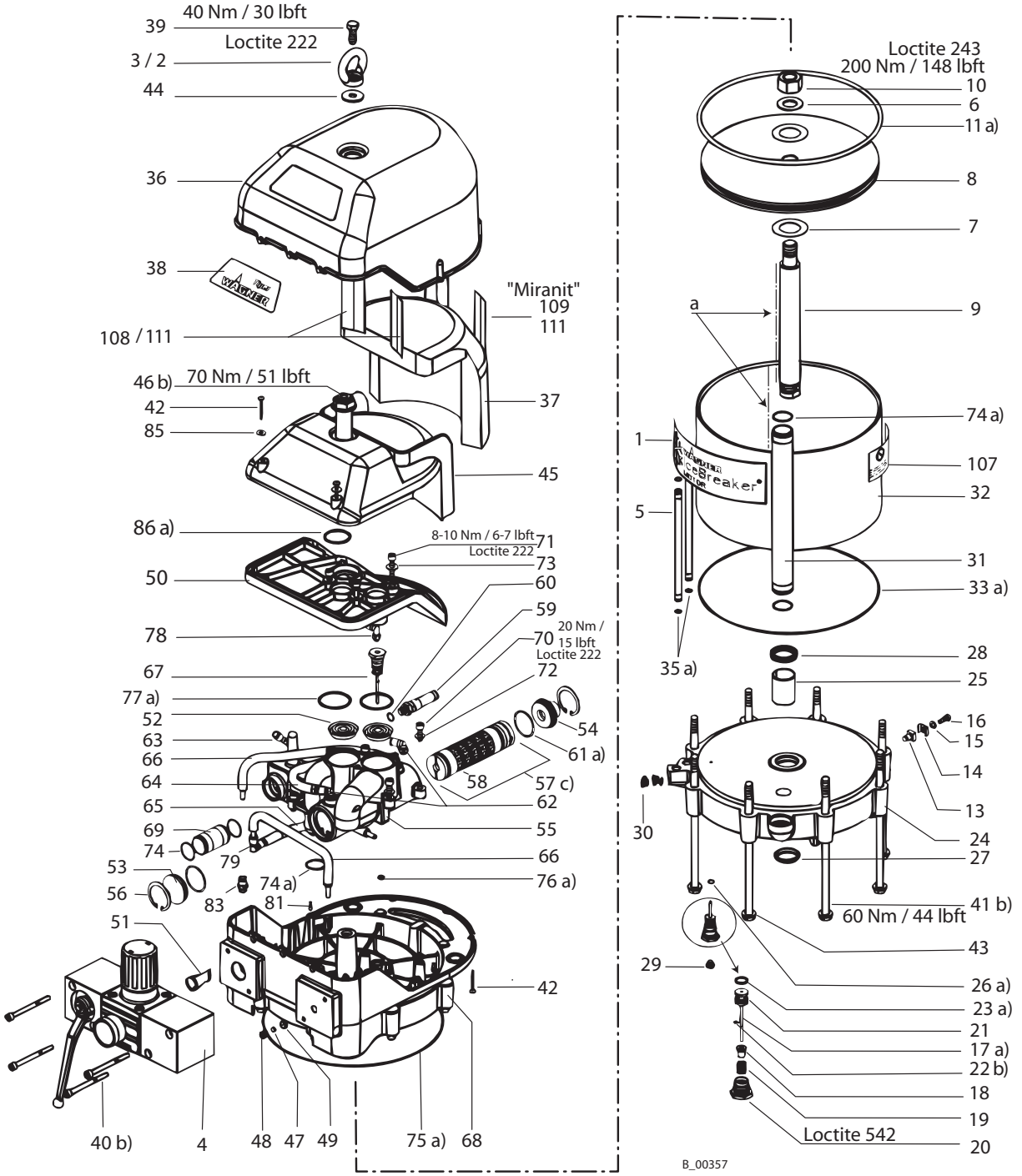
Tightening torque Air motor/Paint stage	70 Nm 52 lbft
Tightening torque Item. 5	300 Nm 222 lbft



Tightening torque

8.3 AIR MOTORS

8.3.1 AIR MOTOR TIGER



Spare parts list air motors

⚠WARNING

Incorrect maintenance/repair!
Risk of injury and damage to the equipment.

→ Repairs and part replacement may only be carried out by specially trained staff or a WAGNER service center.
→ Before all work on the unit and in the event of work interruptions:
- Switch off the energy/compressed air supply.
- Relieve the pressure from the spray gun and unit.
- Secure the spray gun against actuation.
→ Observe the operating and service instructions when carrying out all work.

SIHI_0004_GB

Item	K	Qty	Part-No.	Description
		1	0370080	Air motor Tiger assy.
1		1	0367806	Sticker IceBreaker
2		1	0369324	Shoulder ring
3		1	0369325	Ring nut
4	◆	1	0370060	Pressure regulator unit 12
5		2	0367405	Control air tube 150
6		1	0370303	Pistonwasher 12
7		2	0370304	Damper disc 12
8	◆	1	0370305	Piston 12
9		1	0370402	Piston rod 12/150
10		1	9913051	Hexagon nut
11	◆★	1	9974161	O-ring
13		1	9952668	Base
14		1	9952667	Clamping strap
15		1	9921505	Spring washer
16		1	9900701	Slotted cheese head screw
17		1	0370307	Measuring pin
18		2	0370309	Valve cup
19		2	0370310	Spiral spring
20		2	0370311	Locking screw
21	◆	2	0370312	Valve body
22		2	9922724	Lock washer

◆ = Wearing parts

★ = Included in service set

Spare parts list air motors

Item	K	Qty	Part-No.	Description
23	◆	2	9974102	O-ring
24		1	0370316	Flange 12
25	◆	1	9962026	Permaglide bushing
26	◆	1	9971446	O-ring
27	◆★	1	9974158	Rod wiper D35
28	◆★	1	9974159	Rod seal D35
29		1	9998675	Threaded plug
30		2	9998274	Threaded plug
31		1	0370306	Air Tube 12
32		1	0370403	Cylinder jacket 12/150
33	◆★	1	9971129	O-ring
35	◆★	4	9974089	O-ring
36		1	0369311	Cover 9
37	◆	1	0369319	Acoustical foam mat 9
38		1	0370804	Sticker Wagner 12 tiger
39		1	9900150	Hexagon screw
40		4	9907078	Cap head screw
41		8	9907208	Hexagon screw
42		3	9907125	Screw
43		8	9920107	Washer
44		1	9925034	Spring
45		1	0369310	Exhaust muffler 9
46		1	0369318	Shoulder screw 9
47	◆★	1	0367314	Filter
48		1	0367324	Filter location
49		1	0367325	Throttle
50		1	0369309	Connection piece 9
51	◆★	1	0369313	Filter pressure air 9
52	◆★	2	0369312	Discharger Gasket DE 50
53		1	0370313	Stop plate 12
54		1	0370314	Stop 12
55		1	0370315	Control housing 12
56		2	0370330	Circlip
57	◆	1	9943121	Spool & sleeve
58	◆	6	9974160	Seal ring

◆ = Wearing parts

★ = Included in service set

Spare parts list air motors

Item	K	Qty	Part-No.	Description
59		1	9943124	Bypass valve 7.8 bar (113 psi)
60	◆★	1	9970149	Sealing ring
61	◆★	2	9974092	O-ring
62		2	9998253	Screwed elbow 8-1/4
63		2	9992757	Screwed elbow
64		1	0370233	Air hose front
65		1	0370234	Air hose back
66		2	0370235	Air hose down
67		1	0370308	Measuring pin
68		1	0370317	Controlflange 12
69		1	0370404	Compressed air tube 12
70		4	9900313	Cap head screw
71		3	9900314	Cap head screw
72		4	9920102	Washer
73		3	9925029	Washer
74	◆	5	9971004	O-ring
75	◆★	1	9971129	O-ring
76	◆	1	9971372	O-ring
77	◆★	2	9974132	O-ring
78		1	9992757	Screwed elbow 8-1/8“
79		1	9998613	L-connector
81		2	0370318	Splint for control-flange
82		1	9992744	Straight fitting
83		1	9992743	Straight fitting
84		2	9907125	Screw SFS Plastite 45
85		2	9925031	Washer
86	◆	1	9974165	O-ring
90		1	0370323	Edge ball valve housing 12
91		1	9943117	Stop washer SW14 180
92		1	9943118	Lever SW14 2x cranked
93		1	9943119	Hexagonal screw with washer
94		1	0370321	Splint
95		2	0370322	Fitting 1“/30
96		4	9907172	Set screw
97	◆★	2	9971056	O-ring

◆ = Wearing parts

★ = Included in service set

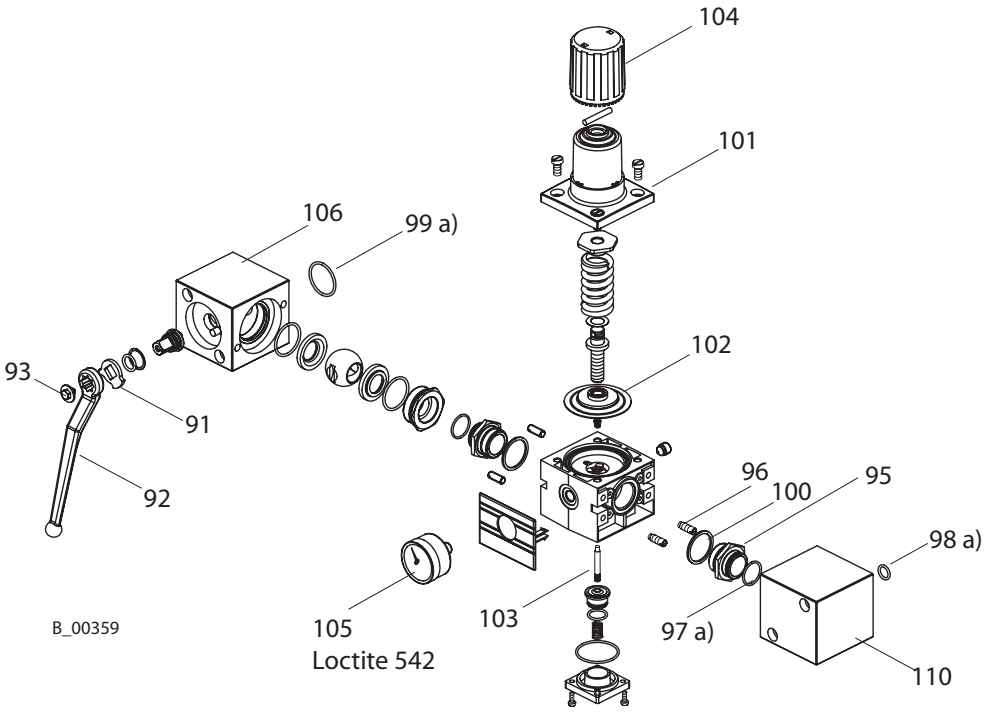
Spare parts list air motors

Item	K	Qty	Part-No.	Description
98	◆★	1	3055026	O-ring
99	◆★	1	9971169	O-ring
100	◆★	2	9974135	Sealing ring 1“
101	◆	1	9998898	Pressure regulator XR-1
102	◆	1	0115901	Diaphragm assy.
103	◆	1	0115969	Wear parts set
104		1	0115787	Handwheel SP
105	◆	1	9998725	Pressure gauge
106		1	0370061	Edge ball valve
107		1	0367807	Danger sign
108	◆	1	9999151	Velcro fastener adhesive part
109	◆	1	9999152	Velcro fastener coating part
110		1	0370321	Distribution housing
111		1	9992816	Adhesive„Miranit“
			0370987	Service kit airmotor 12

◆ = Wearing parts

★ = Included in service set

8.3.2 REGULATOR FOR AIR-MOTOR TIGER



⚠ WARNING

Incorrect maintenance/repair!
Risk of injury and damage to the equipment.

- → Repairs and part replacement may only be carried out by specially trained staff or a WAGNER service center.
- → Before all work on the unit and in the event of work interruptions:
  - Switch off the energy/compressed air supply.
  - Relieve the pressure from the spray gun and unit.
  - Secure the spray gun against actuation.
- → Observe the operating and service instructions when carrying out all work.

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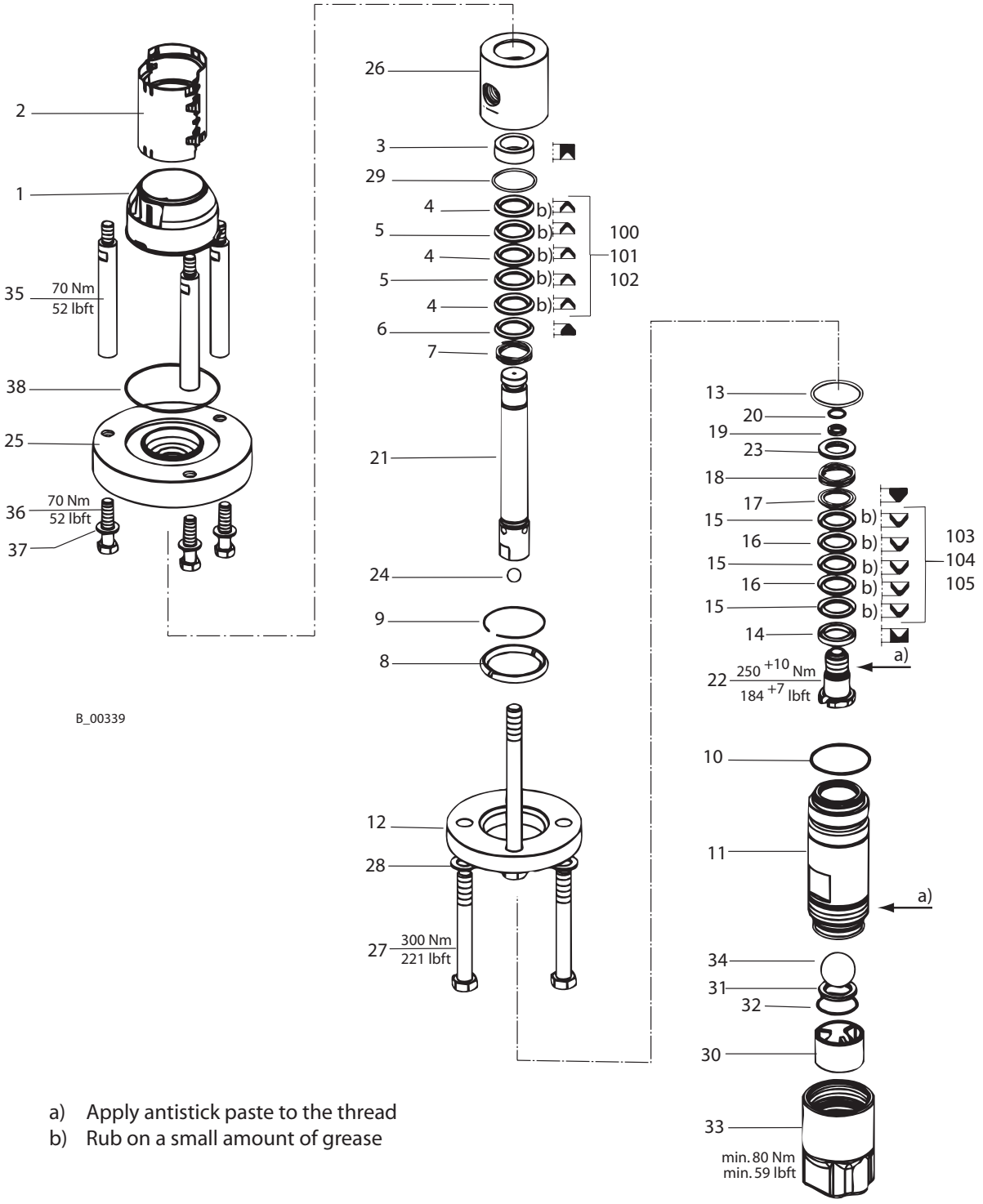
8.3.3 PUMP 300 cm³



a) Apply antistick paste to the thread
b) Rub on a small amount of grease

Spare part list pump

⚠WARNING

Incorrect maintenance/repair!
Risk of injury and damage to the equipment.

→ Repairs and part replacement may only be carried out by specially trained staff or a WAGNER service center.
→ Before all work on the unit and in the event of work interruptions:
- Switch off the energy/compressed air supply.
- Relieve the pressure from the spray gun and unit.
- Secure the spray gun against actuation.
→ Observe the operating and service instructions when carrying out all work.

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Item	K	Qty	Part-No	Description
		1	0370070	Paint stage 300 cm^3
1		1	0368531	Separating oil cup stroke 150
2		2	0368532	Coupling cover stroke 150
3		1	0369516	Support ring 35.8/52-300
4	◆★	3	0368523	Packing PE 35.8/ 52
5	◆★	2	0368922	Packing L 35.8/ 52
5	◆	2	0368522	Packing TG 35.8/ 52
5	◆	2	0368900	Packing T 35.8/ 52
6		1	0368519	Pressure ring 35.8
7	◆★	1	9998671	Sinuous spring 35.8/ 52
8		2	0369512	Snap ring half 300
9		1	0369513	Lock washer 300
10	◆★	2	0369525	O-ring
11	◆	1	0370503	Cylinder 300 HP
12		1	0370511	Snap ring flange 300 HP
13	◆★	1	9974118	O-ring
14		1	0369518	Support ring 34/50-300
15	◆★	3	0369523	Packing PE 34/50
16	◆★	2	0369922	Packing L 34/50
16	◆	2	0369522	Packing TG 34/50
16	◆	2	0369900	Packing T 34/50
17		1	0369519	Pressure ring 34/50
18	◆★	1	9998671	Sinuous spring 35.8/ 52

◆ = Wearing parts

★ = Included in service set

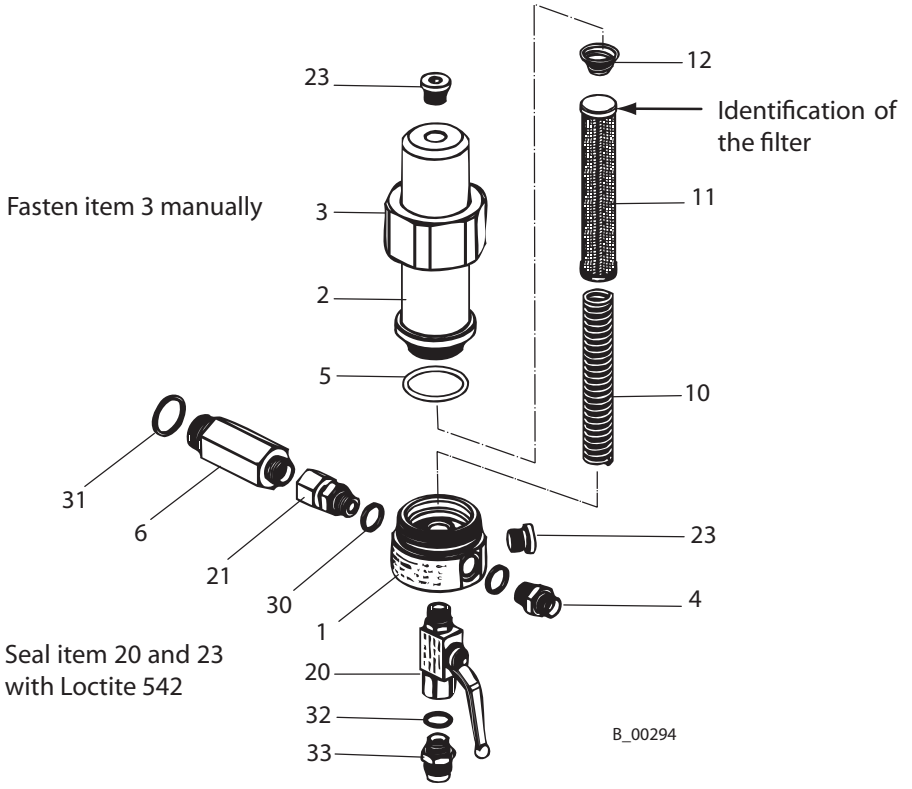
Spare part list pump

Item	K	Qty	Part-No	Description
19	◆	1	0369510	Valve seat outlet 300
20	◆★	1	0369528	O-ring
21	◆	1	0370505	Piston 300 HP
22		1	0370506	Valve screw 300 HP
23		1	0370514	Shoulder ring 300 HP
24	◆★	1	9941505	Ball
25		1	0370501	Connecting flange 300 HD
26		1	0370502	Connecting flange 300 HD
27		4	9907210	Hexagon screw
28		4	9920110	Washer
29	◆★	1	9974117	O-ring
30	◆★	1	0369507	Ball guide inlet 300
31	◆	1	0369509	Valve seat inlet 300
32	◆★	1	0369527	O-ring
33		1	0370504	Inlet housing 300 HD
34	◆★	1	9943086	Ball
35		3	0370533	Threaded bolt M16x169
36		3	9907209	Hexagon screw
37		3	9925011	Washer
38	◆★	1	9974116	O-ring
100	◆	1	0368993	Packing PE/L assy.
101	◆	1	0368992	Packing PE/T assy.
102	◆	1	0368991	Packing PE/TG assy.
103	◆	1	0369993	Packing PE/L assy.
104	◆	1	0369992	Packing PE/T assy.
105	◆	1	0369991	Packing PE/TG assy.
			0370989	Service kit pump 300 ccm HP

◆ = Wearing parts

★ = Included in service set

8.6 HIGH-PRESSURE FILTER



Item	K	Qty	Part-No.	Description
			0370010	HP Filter HPF-3 (Metric)(
			0370110	HP Filter HPF-3 (NPSM)
1		1	0367910	Distribution housing
2		1	0367911	Filter housing
3		1	0367912	Union nut
4		1	0367913	Double socket M16x1.5
4		1	0367556	Double socket NPSM 3/8“
5	◆	1	0367914	O-ring
6		1	0370916	Screw-in socket
10		1	9894245	Filter support
11	◆	1	–	Filter cartridges (see below)
			0295721	Filter cartridge 200
			3514068	Filter cartridge 100
			3514069	Filter cartridge 50
			0291564	Filter cartridge 20
12	◆	1	3514058	Cone spring

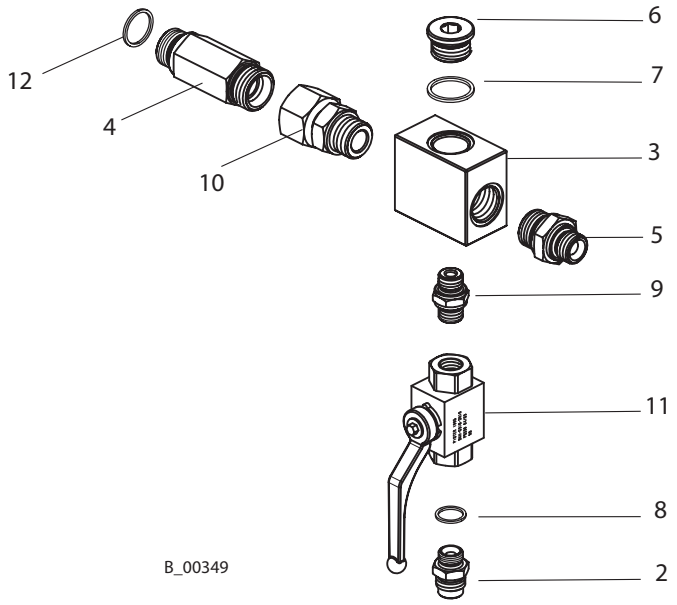
◆ = Wear parts

High pressure filter

Item	K	Qty	Part-No.	Description
20	◆	1	9998679	Ball valve,steel galvanized
20	◆	1	9999159	Ball valve, stainless steel
21		1	9998680	Screw-in screw connection
23		2	9907127	Sealing screw
30	◆	2	9925024	Sealing ring
31	◆	1	0370920	O-ring
32	◆	1	9974111	Sealing ring
33			0367962	Double nipple

◆ = Wear parts

8.7 DISTRIBUTOR



Item	K	Qty	Part-No	Description
			0370099	Distributor assy. (Metric)
			0370199	Distributor assy (NPSM)
2		1	0367962	Connector M20x2-G3/8“
3		1	0370329	Distributor
4		1	0370914	Connector G3/4A-M30x2A
5		1	0370915	Fitting G3/4A-G1/2A
5		1	0369655	Fitting G3/4A-NPSM 1/2A
6		1	9907227	Lock screw
7	◆	1	9974109	Seal ring Cu
8	◆	1	9974111	Seal ring
9		1	9999083	Fitting
10		1	9999183	Fitting
11	◆	1	9999186	Ball valve PN530 G3/8 DN10
12	◆	1	0370920	O-Ring

◆ = Wear parts

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